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APPLICATION NO.	. FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,887	01/29/2004		Tadashi Nakatani	011436A	2317
23850	7590	12/02/2004		EXAMINER	
	ONG, KRA REET, NW	ATZ, QUINTO	BUDD, MARK OSBORNE		
SUITE 100	•		ART UNIT	PAPER NUMBER	
WASHING	TON, DC	20006	2834		

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1807

	Application No.	Applicant(s)					
Office Action Summers	10/765,887	NAKATANI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Mark Budd	2834					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	_•						
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>17 and 18</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>18</u> is/are allowed.							
6)⊠ Claim(s) <u>18</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.	-					
Application Papers	ı						
9)☐ The specification is objected to by the Examiner	•.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1.☐ Certified copies of the priority documents have been received.							
2.⊠ Certified copies of the priority documents have been received in Application No. <u>09/984,418</u> .							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		,					
Attachmont(s)							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	i) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1-29-04. 5) Notice of Informal Patent Application (PTO-152) 6) Other:						
S. Patent and Trademark Office							

Application/Control Number: 10/765,887

Art Unit: 2834

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Ella.

Ella (Fgs. 1, 5) teaches an FBAR comprising a substrate #36, a resonator mode of two electrodes #24, #26 sandwiching a piezoelectric element #22. There is a first space #34 between the lower electrode #24 and the substrate #36 which communications thru openings #40a, #40b with a second space (the area above and around the device.

Claim 18 is allowed.

Further cited of interest are Suzuki (note recess in bottom electrode #12-fig. 3, 4), Ruby (similar to Ella-note etching vias not illustrated but described at col. 5, lines 48-58) and Kline.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark O. Budd whose telephone number is (571)272-2019. The examiner can normally be reached on Monday-Thursday from 6am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramirez, can be reached on ***. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Application/Control Number: 10/765,887

Art Unit: 2834

Page 3

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Budd/ds

11/24/04

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